



7B6

## TWIN DIODE—HIGH-MU TRIODE

7B6

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc volts

Current. . . . . 0.3<sup>□□</sup> . . . . . amp

Direct Interelectrode Capacitances—Triode Unit:<sup>0</sup>

Grid to Plate. . . . . 1.6 . . . . .  $\mu\mu\text{f}$

Grid to Cathode. . . . . 3.0 . . . . .  $\mu\mu\text{f}$

Plate to Cathode. . . . . 2.4 . . . . .  $\mu\mu\text{f}$

<sup>0</sup> With external shield connected to cathode.

#### Mechanical:

Mounting Position . . . . . Any

Maximum Overall Length . . . . . 2-25/32"

Maximum Seated Length. . . . . 2-1/4"

Maximum Diameter . . . . . 1-3/16"

Bulb . . . . . T-9

Base . . . . . Lock-in 8-Pin

Basing Designation for BOTTOM VIEW . . . . . 8W

Pin 1—Heater

Pin 2—Triode Plate

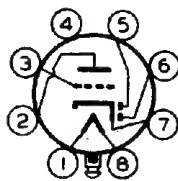
Pin 3—Triode Grid

Pin 4—Internal

Connection

Pin 5—Diode Plate

No.2



Pin 6—Diode

Plate No.1

Pin 7—Cathode,

Internal

Shield

Pin 8—Heater

Plug —Base Shell

### TRIODE UNIT

#### AMPLIFIER—Class A<sub>1</sub>

#### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. . . . . 300 max. volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . . . 90 max. volts

Heater positive with respect to cathode. . . . . 90 max. volts

#### Typical Operation and Characteristics:

Plate Voltage. . . . . 100 250 . . . volts

Grid Voltage . . . . . -1 -2 . . . volts

Amplification Factor . . . . . 100 100

Plate Resistance . . . . . 110000 91000 . . ohms

Transconductance . . . . . 900 1100 . .  $\mu\text{mhos}$

Plate Current. . . . . 0.4 0.9 . . ma.

### DIODE UNITS—Two

Consideration of these units, including typical circuits and diode curves, is given at the front of this Section.

<sup>□</sup> Nominal voltage = 7.0 volts.

<sup>□□</sup> Nominal current = 0.32 ampere.

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DATA